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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/670,154	09/23/2003	Mark Trocki	CT/00-001.CIP.D5	2871
21140 GREGORY L E	7590 09/03/200 BRADLEY	EXAMINER		
MEDRAD INC		MACNEILL, ELIZABETH		
ONE MEDRAD DRIVE INDIANOLA, PA 15051			ART UNIT	PAPER NUMBER
			3767	
			MAIL DATE	DELIVERY MODE
			09/03/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)				
Office Action Summary		10/670,154	TROCKI ET AL.				
		Examiner	Art Unit				
		ELIZABETH R. MACNEILL	3767				
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1)[\	Responsive to communication(s) filed on <u>07 A</u>	ugust 2008					
•	· · · · · · · · · · · · · · · · · · ·						
′=	This action is FINAL . 2b) This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
3/1	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
	closed in accordance with the practice under 2	- parte Quayre, 1909 C.D. 11, 40	0.0.210.				
Dispositi	on of Claims						
4)🛛	☑ Claim(s) <u>1,5,6,8,11 and 15-20</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)	5) Claim(s) is/are allowed.						
6)🖂	6)⊠ Claim(s) <u>1,5,6,8,11 and 54-20</u> is/are rejected.						
· ·	Claim(s) is/are objected to.						
•	Claim(s) are subject to restriction and/o	r election requirement.					
	on Papers						
	•	r					
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
10)[
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority ι	ınder 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
2) Notic 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite				

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1,5,6,8,11, and 15-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Runnells et al (US 3,752,145) in view of Niehoff (US 5,662,612). Runnells teaches a method of operating an injector detailed at Col 3: "A tube is then attached to the outlet 22 of the syringe and the free end of the tube is submerged in contrast solution. Air is bled from the syringe by advancing the piston plate 14 toward the outlet 22. Additional contrast solution may then be drawn through the tube into the syringe housing by retracting the piston plate." Runnells does not disclose sensing the syringe and automatically advancing the piston of the injector.

Niehoff discloses a power injector which automatically senses the presence and capacity of a syringe and advances and retracts the plunger automatically (see Abstract). Niehoff also teaches preprogramming the injection volume and syringe volume (see Col 9 line 38, Col 11 line 49, Col 12 line 5, and Fig 7E). As to claim 6, see Niehoff Fig 1a and Col 1, last paragraph.

Niehoff teaches that manually advancing and controlling the plunger is " tedious and inefficient, not only because of the time consumed, but also because the operator must

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press and hold manual movement switches to produce the movement, and thus is physically tied to the injector and cannot use this time to make other preparations" It is well known that both the syringe and the tubing must be primed to remove air (Runnells) and that a syringe pump can be programmed to automatically advance to engage a plunger and to move the plunger forward and backward to load or prime the syringe (Niehoff). Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to use the automated power injector of Niehoff with the loading and priming method of Runnells in order to reduce human error and accurately sense the syringe and plunger position in a loaded syringe (Niehoff abstract).

As to claims 18-20, Niehoff teaches adjusting the programmed parameters after mounting the syringe (Fig 6a).

Response to Arguments

3. Applicant's arguments filed 7 August 2008 have been fully considered but they are not persuasive. Applicant has argued that the combination does not automatically advancing the piston to prime the tubing without user input or control. See rationale above the Niehoff teaches the advantages of automating the syringe loading procedure and Runnells teaches the importance of priming both the tubing and the syringe. The rejection is maintained as modified above. Furthermore, applicant's invention now claims operator input of the programmed volume, so arguments relating to the claims requiring all steps to take place automatically or without user input are not persuasive.

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Conclusion

1. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ELIZABETH R. MACNEILL whose telephone number is (571)272-9970. The examiner can normally be reached on 9:00-5:30 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kevin Sirmons can be reached on (571) 272-4965. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Elizabeth R MacNeill/ Examiner, Art Unit 3767 /Kevin C. Sirmons/ Supervisory Patent Examiner, Art Unit 3767